

Title (en)  
MOLECULAR INDEXING OF PROTEINS BY SELF ASSEMBLY (MIPSA) FOR EFFICIENT PROTEOMIC INVESTIGATIONS

Title (de)  
MOLEKULARE INDEXIERUNG VON PROTEINEN DURCH SELBSTANORDNUNG (MIPSA) FÜR EFFIZIENTE PROTEOMISCHE UNTERSUCHUNGEN

Title (fr)  
INDEXATION MOLÉCULAIRE DE PROTÉINES PAR AUTO-ASSEMBLAGE (MIPSA) POUR DES RECHERCHES PROTÉOMIQUES EFFICACES

Publication  
**EP 4301869 A1 20240110 (EN)**

Application  
**EP 22763920 A 20220301**

Priority  
• US 202163155086 P 20210301  
• US 2022018386 W 20220301

Abstract (en)  
[origin: WO2022187277A1] The present disclosure relates to the field of proteomics. More specifically, the present disclosure provides compositions and methods for molecular indexing of proteins by self-assembly. In one aspect, the present disclosure provides a library of self-assembled protein-DNA conjugates. In particular embodiments, each protein-DNA conjugate comprises (a) a cDNA comprising a barcode, wherein the cDNA is conjugated with a ligand that specifically binds a polypeptide tag; and (b) a fusion protein comprising the polypeptide tag and a protein of interest, wherein the ligand is covalently bound to the polypeptide tag.

IPC 8 full level  
**C12Q 1/68** (2018.01)

CPC (source: EP KR)  
**A61P 11/00** (2018.01 - EP); **A61P 31/00** (2018.01 - EP); **C07K 19/00** (2013.01 - KR); **C12N 15/1068** (2013.01 - EP KR); **C40B 30/04** (2013.01 - EP KR); **C40B 40/06** (2013.01 - EP KR); **C40B 40/10** (2013.01 - EP KR); **C07K 2319/735** (2013.01 - KR); **C12Q 2563/179** (2013.01 - KR); **G01N 2500/02** (2013.01 - EP); **G01N 2500/04** (2013.01 - EP); **G01N 2800/52** (2013.01 - EP)

C-Set (source: EP)  
**C12N 15/1068 + C12Q 2521/101 + C12Q 2521/107 + C12Q 2525/143 + C12Q 2525/149 + C12Q 2525/155 + C12Q 2531/113 + C12Q 2563/131 + C12Q 2563/179**

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022187277 A1 20220909**; AU 2022228458 A1 20230914; CA 3209506 A1 20220909; CN 118076748 A 20240524; EP 4301869 A1 20240110; JP 2024510924 A 20240312; KR 20230160284 A 20231123

DOCDB simple family (application)  
**US 2022018386 W 20220301**; AU 2022228458 A 20220301; CA 3209506 A 20220301; CN 202280032520 A 20220301; EP 22763920 A 20220301; JP 2023553019 A 20220301; KR 20237033691 A 20220301